

P R E S E N T E D B Y



CodeIgniter PHP Framework

CHRISTOPHER JOHN CUBOS

WEB DESIGN AND DEVELOPMENT MONTH 2011

COLLEGES & UNIVERSITIES DAVAO CITY PHILIPPINES (AUGUST)



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DEVELOPER OR DESIGN ROCKSTAR



IN THIS EXTREMELY COMPETITIVE
WORLD OF TECHNOLOGY AND DESIGN,
YOU NEED TO LEARN FROM THE BEST!

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////////////////////////////////////



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Who is Chris Cubos?

- Started programming at age 10 (1985)
- Created his first website (1995)
- The first web designer/developer in Mindanao
- Been doing this for 26 years and still learning
- Won the first website design competition in the Philippines (1995)
- Developed his first CD-ROM application (1996)
- Developed his first flash site (1995)

... forward to the present

Tech Stuff

- Languages: Q/BASIC/A, Pascal, C, C++, Assembly, PHP, JavaScript, VBScript, ASP, AutoLISP, Lingo, ActionScripting, etc...
- PHP Frameworks: CodeIgniter, FuelPHP
- CMS: Wordpress, Drupal, Joomla, Mambo, etc
- Applications: Photoshop, Dreamweaver, Illustrator, AfterEffects, Premiere, CS, etc...

1st Web Development Company

- Won the Philippine Webby Awards for Multimedia Category
- Won Davao Web Design Competition in multiple categories and the overall best web design
- 1st Company to develop flash based applications
- 1st Company to develop multimedia CD-ROMs
- 1st Company to develop web portals
- 2nd Company to develop a PH search engine
- Won multiple awards in web design, logo design

Yes the present

- He currently devotes his time helping students enhance their skills with the non-profit organization called the SiliconGulf Initiative
- He is also organizing large I.T. events in the Davao and currently organized the most number of I.T. events in a single month.
- Furthermore, he is currently developing the the first game-based training center in Mindanao

Brewing

- We are currently developing the first game-based training center in Mindanao
- Multiple mobile apps and games
- Organizing multiple upcoming I.T. events



What is CodeIgniter

- CodeIgniter is an Application Development Framework, a toolkit, for people who build sites
- Its goal is to enable you to develop projects much faster than you could if you were writing code from scratch
- Provides a rich set of libraries for commonly needed tasks, as well as a simple interface and logical structure to access these libraries.
- CodeIgniter lets you focus on your project by minimizing the amount of code needed for a given task.

Who is this for

- You want a framework with a small footprint.
- You need exceptional performance.
- You need broad compatibility with standard hosting accounts that run a variety of PHP versions and configurations.
- You want a framework that requires nearly zero configuration.
- You want a framework that does not require you to use the command line.
- You want a framework that does not require you to adhere to restrictive coding rules.
- You are not interested in large-scale monolithic libraries like PEAR.
- You do not want to be forced to learn a templating language
- You eschew complexity, favoring simple solutions.
- You need clear, thorough documentation.



Basic Facts

- CodeIgniter is licensed under an Apache/BSD-style open source license so you can use it however you please.
- Owned by a company (EllisLab, Inc.)
- Large following and active community
- Now allows user contributed code through CodeIgniter Reactor
- Large number of examples
- Lightweight

IF THIS WERE SCHOOL, YOU'D BE "OWNING"

IN A TRUE GAME-BASED LEARNING SYSTEM,
WE DON'T TEACH YOU HOW TO PLAY GAMES,
WE MAKE YOU LIVE IT.



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Quick Facts

- Thorough documentation
- Fast
- Uses M-V-C
- Generates Clean URLs
- Extensible
- Does Not Require a Template Engine
- Friendly Community of Users
- Easy to get started

Features

- Model-View-Controller Based System
- Extremely Light Weight
- Full Featured database classes with support for several platforms.
- Active Record Database Support
- Form and Data Validation
- Security and XSS Filtering
- Session Management
- Email Sending Class. Supports Attachments, HTML/Text email, multiple protocols (sendmail, SMTP, and Mail) and more.
- Image Manipulation Library (cropping, resizing, rotating, etc.). Supports GD, ImageMagick, and NetPBM

- File Uploading Class
- FTP Class
- Localization
- Pagination
- Data Encryption
- Benchmarking
- Full Page Caching
- Error Logging
- Application Profiling
- Calendaring Class

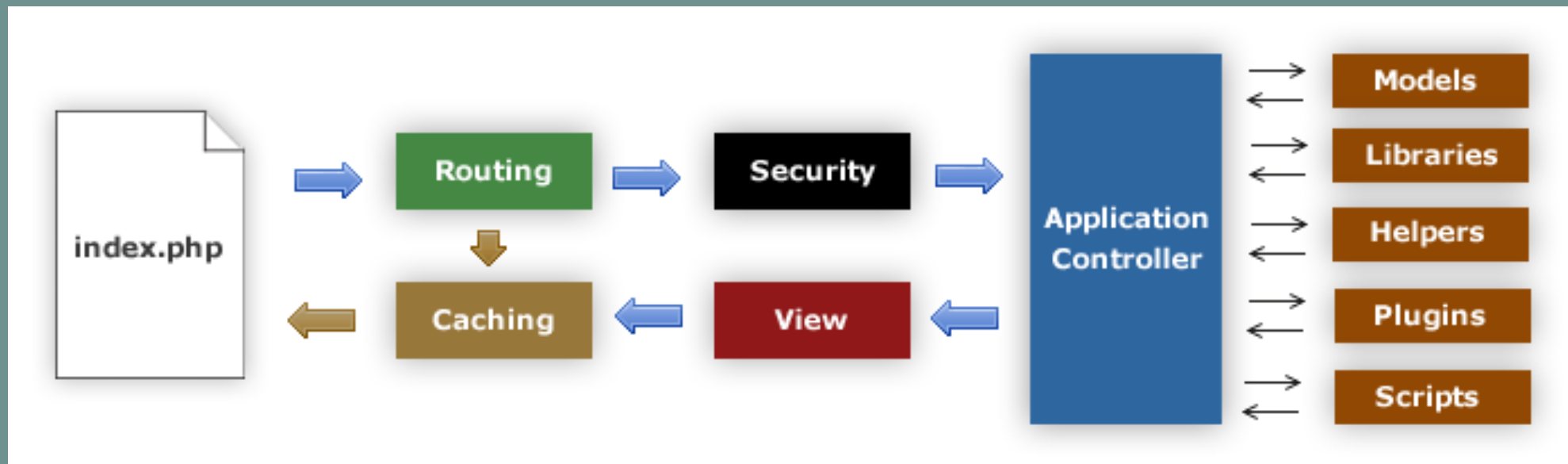


- User Agent Class
- Zip Encoding Class
- Template Engine Class
- Trackback Class
- XML-RPC Library
- Unit Testing Class
- Search-engine Friendly URLs
- Flexible URI Routing
- Support for Hooks and Class Extensions
- Large library of "helper" functions



Application Flow Chart

This illustrates how data flows in the system



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Installing: Windows

- Runs on WAMP
- Download
- Copy to Web Root
- Run

Welcome to CodeIgniter!

The page you are looking at is being generated dynamically by CodeIgniter.

If you would like to edit this page you'll find it located at:

```
application/views/welcome_message.php
```

The corresponding controller for this page is found at:

```
application/controllers/welcome.php
```

If you are exploring CodeIgniter for the very first time, you should start by reading the [User Guide](#).

Page rendered in 0.0282 seconds

Creating your first Controller

```
class Hello extends CI_Controller {  
  
    public function index()  
    {  
        $data['title']="hello";  
        $data['content']="lorem ipsum dolor etc..";  
        $data['pref']=array("beauty", "brains", "body");  
        $this->load->view('hello', $data);  
    }  
}
```


**YOU CAN SETTLE FOR LESS IN ORDINARY LIFE,
OR DO YOU FEEL LIKE YOU WERE MEANT FOR SOMETHING BETTER?**



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Creating your first view

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<title><?php echo $title;?></title>
</head>
<body>
    <h1><?php echo $title;?></h1>
    <p><?php echo $content;?></p>
</body>
</html>
```

Using arrays

```
<ul>
```

```
<?php foreach($pref as $item):?>
```

```
  <li><?php echo $item;?></li>
```

```
<?php endforeach;?>
```

```
</ul>
```

Displaying from a database

Make a usable web application to showcase how easy it is to develop on CodeIgniter

Steps to take

- Create your database
- Edit application/config/database.php
- Edit application/config/autoload.php
- Create your controller
- Create your model
- Create your view

Edit config/database.php

```
$db['default']['hostname'] = 'localhost';  
$db['default']['username'] = 'root';  
$db['default']['password'] = '';  
$db['default']['database'] = 'codeigniter';  
$db['default']['dbdriver'] = 'mysql';
```


Edit config.php

```
$autoload['libraries'] = array('database');
```

The Controller

```
<?php
class HelloDb extends CI_Controller {

    public function index()
    {
        $data['title']="My Preferences";
        $data['content']="check out what I'm looking for";
        $data['query']=$this->db->get('prefs');
        $this->load->view('hellodb', $data);
    }
}
?>
```

The View

```
<ul>
```

```
<?php foreach($query->result() as $row):?>
```

```
    <li><?php echo $row->pref;?></li>
```

```
<?php endforeach;?>
```

```
</ul>
```

Showcase

- Complete Social Networking Site with authentication, profiles, photo gallery, forum, directory, etc...

What's next

- Research
- Compare
- Develop Applications
- Test
- And do it all over again.

Thanks

Oops... There's more



Full year of IT Events

August 2011: Web Development Month

September 2011: Mobile Application Month

October 2011: Animation Month

November 2011: Bloggers Month

December 2011: SEO Month

January 2012: Technopreneurship Month

February 2012: I.T. Education Month

March 2012: I.T. Career Month

April 2012: Gaming Month

May 2012: Graphic Design Month

June 2012: Hacking and Network Security Month

July 2012: Software Development Month



August I.T. Events by PGO

University of Southeastern Philippines (USEP)

Friday, August 12 · 9:00am - 11:30am

<http://www.facebook.com/event.php?eid=229646943743096>

John Paul II College (JP2C)

Saturday, August 13 · 9:00am - 4:00pm

<http://www.facebook.com/event.php?eid=220035684709122>

University of Mindanao (UM)

Wednesday, August 17 · 1:00pm - 5:00pm

<http://www.facebook.com/event.php?eid=245697658786703>

University of Immaculate Conception (UIC)

Saturday, August 20 · 1:00pm - 5:00pm

<http://www.facebook.com/event.php?eid=231713253532167>



August I.T. Events by PGO

Holy Cross (HCDC)

Tuesday, August 23 · 3:00pm - 6:00pm

<http://www.facebook.com/event.php?eid=253809011309471>

InterCity College of Science and Technology (ICST)

Wednesday, August 24 · 9:00pm - 11:00pm

<http://www.facebook.com/event.php?eid=225237414194879>

AMA Computer College

Thursday, August 25 · 9:30am - 1:00pm

<http://www.facebook.com/event.php?eid=138109472943706>

STI College

Friday, August 26 · 1:00am - 4:00pm

<http://www.facebook.com/event.php?eid=124462760983852>



Competition

On-the-spot Student Web Design Competition August 27, 2011

<http://www.facebook.com/event.php?eid=241281559236739>

Entries can be found at

http://www.silicongulf.com/competitions/web_design



Our Loving Supporters

- The SiliconGulf Initiative
- Davao IT
- Adobe User Group
- PHP Philippines
- Developers, Entrepreneurs, Artists of Davao
- SEO-Philippines
- The IT School with no name yet
- Philippine Global Outsourcing

Real Thanks

To all speakers, PHP framework developers, our team at Philippine Global Outsourcing, students of all participating schools

To the CodeIgniter Development Team for this wonderful piece of software.



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LEARN

2D/3D ANIMATION

GRAPHIC DESIGN

WEB DESIGN AND DEVELOPMENT

MOBILE APPLICATION DEVELOPMENT

SEARCH ENGINE OPTIMIZATION (SEO)

LOGO DESIGN AND ILLUSTRATION

INTERNET MARKETING

AND MORE



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SiliconGulf Campus

SiliconGulf Campus is one of the pioneers of game based learning system in the Philippines. Our goal is to combined complex theories with fun and excitement of playing games.

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